

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2013 Levee Inspection Results****Reclamation District No. 2085 Kasson**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	5.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/09/2013 - 04/09/2013			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Ralph Timan RD2085			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo
1				Operations & Maintenance Manuals	LS A Ma		° °	° °	7
DWR ID: DWR_RD2085_01_s_2013_7									
2				Emergency Supplies & Equipment	LS A Ma		° °	° °	9
DWR ID: DWR_RD2085_01_s_2013_9									
3				Flood Preparedness & Training	LS A Ma		° °	° °	14
DWR ID: DWR_RD2085_01_s_2013_14									
4	0.41	0.64		Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.723140 ° -121.299541 °	37.721889 ° -121.296096 °	1 Y
DWR ID: DWR_RD2085_01_s_2012_1									
5	0.47	0.47		Encroachments	WS U En	PI : Pipe Inspector Comments: Pipe from abandoned drainage pump penetrates levee with no closure devices.	37.723396 ° -121.298572 °	37.723396 ° -121.298572 °	2 Y
DWR ID: DWR_RD2085_01_s_2012_2									
6	0.76	0.76		Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.720699 ° -121.294710 °	37.720699 ° -121.294710 °	5 Y
DWR ID: DWR_RD2085_01_s_2012_5									
7	1.15	1.15		Animal Control	CR M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Multiple rodent burrows on crown.	37.715820 ° -121.291183 °	37.715820 ° -121.291183 °	25 Y
DWR ID: DWR_RD2085_01_f_2012_25									
8	1.18	1.18		Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: 6-7 burrows present near levee toe.	37.715569 ° -121.290892 °	37.715569 ° -121.290892 °	40 Y
DWR ID: DWR_RD2085_01_s_2012_40									
9	1.28	1.32		Encroachments	LS M En	DT : Ditch Inspector Comments: Drainage ditch at levee toe.	37.714265 ° -121.289641 °	37.714056 ° -121.289069 °	6 Y
DWR ID: DWR_RD2085_01_s_2012_6									
10	1.29	1.29		Encroachments	WSA/W U En	PI : Pipe	37.714400 ° -121.289466 °	37.714400 ° -121.289466 °	21 Y
DWR ID: DWR_RD2085_01_s_2013_21									
11	1.35	1.35		Encroachments	WS U En	PI : Pipe Inspector Comments: The pipe has corroded and caused several sinkholes in the waterside slope and berm.	37.714048 ° -121.288410 °	37.714048 ° -121.288410 °	8 Y
DWR ID: DWR_RD2085_01_s_2012_8									
12	1.98	2.11		Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.708839 ° -121.279272 °	37.708151 ° -121.277097 °	26 Y
DWR ID: DWR_RD2085_01_s_2013_26									
13	1.98	1.98		Encroachments	WSA/W U En	PI : Pipe	37.708838 ° -121.279253 °	37.708838 ° -121.279253 °	17 Y
DWR ID: DWR_RD2085_01_s_2012_17									

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
14	1.98	2.44		Encroachments	LS En	M	DT : Ditch Inspector Comments: Concrete-lined ditch near levee toe.	37.708737 ° -121.279087 °	37.703893 ° -121.274605 °	18
DWR ID: DWR_RD2085_01_s_2012_18										
15	2.12	2.37		Vegetation	LS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.708055 ° -121.276920 °	37.704947 ° -121.274807 °	30
DWR ID: DWR_RD2085_01_f_2012_30										
16	2.45	2.45		Trim / Thin Trees	CR Ma	C	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Trim tree up 12' over roadway.	37.703707 ° -121.274597 °	37.703707 ° -121.274597 °	41
DWR ID: DWR_RD2085_01_s_2012_41										
17	2.49	2.52	Supplemental	DWR Erosion Survey	WS Ma	U	Inspector Comments: 12/04/2012: The erosion has progressed remarkably toward levee, extended to the up- and downstream of the original pocket erosion. Trees and dense bush present at the site. Animal burrow holes are visible, and possibly can cause seepage. 09/22/2010: No significant changes observed. There is little visibility due to seasonal grass on the berm and slope. 08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2012 Site ID:RD2085U01RM66.5]	37.703215 ° -121.274701 °	37.702756 ° -121.274903 °	38 Y
DWR ID: DWR_RD2085_01_s_2013_38										
18	2.51	2.51		Underseepage Relief Wells	LS Ob	A/W		37.702903 ° -121.274860 °	37.702903 ° -121.274860 °	20
DWR ID: DWR_RD2085_01_s_2012_20										
19	2.75	2.75		Encroachments	WSA/W En	PI : Pipe		37.699696 ° -121.276301 °	37.699696 ° -121.276301 °	31
DWR ID: DWR_RD2085_01_s_2013_31										
20	3.22	3.22		Encroachments	WSA/W En	PI : Pipe	Inspector Comments: Pipe capped with a steel plate on waterside end.	37.693635 ° -121.277612 °	37.693635 ° -121.277612 °	46 Y
DWR ID: DWR_RD2085_01_s_2013_46										
21	3.28	3.28		Animal Control	WSA/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.		37.692916 ° -121.277929 °	37.692916 ° -121.277929 °	15 Y
DWR ID: DWR_RD2085_01_s_2012_15										
22	3.31	3.31		Animal Control	LS Ma	U	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: No rodents visible, but numerous, >10, burrows on landside. 1 burrow on waterside.	37.692453 ° -121.278037 °	37.692453 ° -121.278037 °	44 Y
DWR ID: DWR_RD2085_01_s_2012_44										
23	3.33	3.33		Encroachments	WSA/W En	PI : Pipe	Inspector Comments: Pipe capped with a steel plate on waterside end.	37.691969 ° -121.278093 °	37.691969 ° -121.278093 °	22 Y
DWR ID: DWR_RD2085_01_s_2012_22										
24	3.37	3.37		Animal Control	LS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.691680 ° -121.277925 °	37.691680 ° -121.277925 °	47 Y
DWR ID: DWR_RD2085_01_s_2012_47										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
25	3.46	3.46		Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.690532 ° -121.276993 °	37.690532 ° -121.276993 °	16
								DWR ID: DWR_RD2085_01_s_2012_16		
26	3.46	3.46		Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.690532 ° -121.276993 °	37.690532 ° -121.276993 °	19
								DWR ID: DWR_RD2085_01_s_2012_19		
27	3.58	3.71	Supplemental	DWR Erosion Survey	WSA/W	Ma	Inspector Comments: 12/04/2012: This site has been documented before, and a cost estimate to repair has been prepared dated 05/09/2010. The fresh cut shows the erosion is developing. The berm width is at least 42 feet. Sticks were placed at three location along the river bank, with 3 sticks 5 feet apart at each location. [2012 Site ID:RD2085U01RM67.7]	37.688545 ° -121.276298 °	37.688545 ° -121.276298 °	39 Y
								DWR ID: DWR_RD2085_01_s_2013_39		
28	3.64	3.70		Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.688175 ° -121.276740 °	37.687047 ° -121.276747 °	37
								DWR ID: DWR_RD2085_01_f_2012_37		
29	3.72	3.72		Encroachments	CRA/W	En	PI : Pipe Inspector Comments: Discharge from River Club lake.	37.686977 ° -121.276804 °	37.686977 ° -121.276804 °	24
								DWR ID: DWR_RD2085_01_s_2012_24		
30	3.78	3.78		Trim / Thin Trees	CR	C Ma	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Tree needs to be trimmed up 12' over roadway.	37.686081 ° -121.276741 °	37.686081 ° -121.276741 °	52
								DWR ID: DWR_RD2085_01_s_2012_52		
31	3.89	3.97		Trim / Thin Trees	WS	C Ma	T1 : Trim trees to at least five feet above ground level.	37.684509 ° -121.276243 °	37.683472 ° -121.275570 °	27
								DWR ID: DWR_RD2085_01_s_2012_27		
32	3.95	3.95		Encroachments	CRA/W	En	PI : Pipe	37.683445 ° -121.275848 °	37.683445 ° -121.275848 °	10 Y
								DWR ID: DWR_RD2085_01_s_2012_10		
33	3.98	3.98		Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.683403 ° -121.275372 °	37.683403 ° -121.275372 °	53 Y
								DWR ID: DWR_RD2085_01_s_2012_53		
34	4.14	4.14		Trim / Thin Trees	WS	C Ma	T1 : Trim trees to at least five feet above ground level.	37.682125 ° -121.272988 °	37.682125 ° -121.272988 °	28
								DWR ID: DWR_RD2085_01_s_2012_28		
35	4.18	4.45		Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.681886 ° -121.272333 °	37.681332 ° -121.267518 °	54 Y
								DWR ID: DWR_RD2085_01_s_2012_54		
36	4.23	4.33		Trim / Thin Trees	WS	C Ma	T1 : Trim trees to at least five feet above ground level.	37.681746 ° -121.271419 °	37.681882 ° -121.269607 °	29
								DWR ID: DWR_RD2085_01_s_2012_29		
37	4.28	4.28		Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	37.681752 ° -121.270542 °	37.681752 ° -121.270542 °	42
								DWR ID: DWR_RD2085_01_s_2013_42		

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
38	4.29	4.32		Trim / Thin Trees	LS	C Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Trees on levee slope near gate.	37.681765 ° -121.270375 °	37.681868 ° -121.269917 °	11
DWR ID: DWR_RD2085_01_s_2012_11										
39	4.32	4.37		Vegetation	LS	M En	V6 : Landscaping	37.681863 ° -121.269856 °	37.681640 ° -121.269046 °	33 Y
DWR ID: DWR_RD2085_01_s_2012_33										
40	4.37	4.37		Trim / Thin Trees	WS	C Ma	T1 : Trim trees to at least five feet above ground level.	37.681606 ° -121.268942 °	37.681606 ° -121.268942 °	13
DWR ID: DWR_RD2085_01_s_2012_13										
41	4.38	4.38		Trim / Thin Trees	LS	N Ma	T5 : Tree stumps.	37.681605 ° -121.268882 °	37.681605 ° -121.268882 °	32 Y
DWR ID: DWR_RD2085_01_s_2012_32										
42	4.49	5.16		Vegetation	WS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.681203 ° -121.266807 °	37.675008 ° -121.269265 °	55
DWR ID: DWR_RD2085_01_s_2012_55										
43	4.61	4.71		Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.680394 ° -121.264707 °	37.676892 ° -121.269781 °	34
DWR ID: DWR_RD2085_01_s_2012_34										
44	4.71	4.71		Encroachments	LS	A/W Ma	ST : Stairway Inspector Comments: Stairs for monitoring station on landside slope.	37.679451 ° -121.265453 °	37.679451 ° -121.265453 °	35 Y
DWR ID: DWR_RD2085_01_s_2012_35										
45	4.71	4.71		Encroachments	WSA/W	En	BU : Building Inspector Comments: Monitoring station on waterward side.	37.679451 ° -121.265453 °	37.679451 ° -121.265453 °	36 Y
DWR ID: DWR_RD2085_01_s_2012_36										
46	4.81	4.87		Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.678321 ° -121.266612 °	37.678073 ° -121.267635 °	56 Y
DWR ID: DWR_RD2085_01_s_2012_56										
47	4.92	5.01		Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.677882 ° -121.268440 °	37.677072 ° -121.269667 °	57 Y
DWR ID: DWR_RD2085_01_s_2012_57										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	4
Start Levee Mile	0.41
End Levee Mile	0.64
Location	Land Side
Category	
Item	Vegetation
View of tall vegetation on landside slope obstructing visibility.	
mkhashch_s_20130225_447.JPG	



Levee Mile Report Line	5
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Water Side
Category	
Item	Encroachments
Drainage discharge pipe penetrates levee with no closure device.	
mkhashch_s_20130225_448.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Water Side
Category	
Item	Encroachments
Opening on landside appears to consist of melted poly pipe halfway up levee slope. Opening on waterside is heavily corroded steel pipe.	
mkhashch_s_20130225_449.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	5
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Water Side
Category	
Item	Encroachments
04/28/2011 Area around discharge pipe appears to be in an area of erosion. Area was found after weeds were cleared.	
mkhashch_s_20130225_450.jpg	



Levee Mile Report Line	7
Start Levee Mile	1.15
End Levee Mile	1.15
Location	Crown
Category	
Item	Animal Control
View of multiple rodent burrows on levee crown.	
mkhashch_s_20130225_456.JPG	



Levee Mile Report Line	8
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Land Side
Category	
Item	Animal Control
11/03/2011 Several burrows present.	
mkhashch_s_20130225_466.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	8
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Land Side
Category	
Item	Animal Control
11/03/2011 Second photo more burrows in the same location.	
mkhashch_s_20130225_467.jpg	



Levee Mile Report Line	10
Start Levee Mile	1.29
End Levee Mile	1.29
Location	Water Side
Category	
Item	Encroachments
View of the pipe penetrating the waterside levee slope.	
mkhashch_s_20130410_713.JPG	



Levee Mile Report Line	11
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Water Side
Category	
Item	Encroachments
Photo of anti siphon at waterside shoulder.	
mkhashch_s_20130225_451.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	11
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Water Side
Category	
Item	Encroachments
View of the corroded pipe day lighting at the waterside berm.	
mkhashch_s_20130410_714.JPG	



Levee Mile Report Line	11
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Water Side
Category	
Item	Encroachments
View of the sinkhole at the waterside berm and slope. The sinkhole is approximately 36" wide by 70" long by 32" deep.	
mkhashch_s_20130410_715.JPG	



Levee Mile Report Line	13
Start Levee Mile	1.98
End Levee Mile	1.98
Location	Water Side
Category	
Item	Encroachments
View of the pipe day lighting at waterside levee toe.	
mkhashch_s_20130410_716.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	17
Start Levee Mile	2.49
End Levee Mile	2.52
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking downstream

mkhashch_s_20130225_462.jpg



Levee Mile Report Line	17
Start Levee Mile	2.49
End Levee Mile	2.52
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking upstream

mkhashch_s_20130225_463.jpg



Levee Mile Report Line	20
Start Levee Mile	3.22
End Levee Mile	3.22
Location	Water Side
Category	
Item	Encroachments

View of the pipe capped at the waterside slope.

mkhashch_s_20130410_718.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	21
Start Levee Mile	3.28
End Levee Mile	3.28
Location	Water Side
Category	
Item	Animal Control
04/28/2011 Fresh burrow in center of picture, "porch" extends to the grass line.	
mkhashch_s_20130225_455.jpg	



Levee Mile Report Line	22
Start Levee Mile	3.31
End Levee Mile	3.31
Location	Land Side
Category	
Item	Animal Control
11/03/2011 Landside burrows.	
mkhashch_s_20130225_469.jpg	



Levee Mile Report Line	22
Start Levee Mile	3.31
End Levee Mile	3.31
Location	Land Side
Category	
Item	Animal Control
11/03/2011 More landside burrows at same location.	
mkhashch_s_20130225_470.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	23
Start Levee Mile	3.33
End Levee Mile	3.33
Location	Water Side
Category	
Item	Encroachments

View of the pipe capped at the waterside end.

mkhashch_s_20130410_719.JPG



Levee Mile Report Line	24
Start Levee Mile	3.37
End Levee Mile	3.37
Location	Land Side
Category	
Item	Animal Control

Rodent holes have been flagged for repair.

mkhashch_s_20130225_472.jpg



Levee Mile Report Line	27
Start Levee Mile	3.58
End Levee Mile	3.71
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking downstream. At the downstream end the erosion occurring at a spur levee.

mkhashch_s_20130225_464.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	27
Start Levee Mile	3.58
End Levee Mile	3.71
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Looking downstream at the erosion at the spur levee	
mkhashch_s_20130225_465.jpg	



Levee Mile Report Line	32
Start Levee Mile	3.95
End Levee Mile	3.95
Location	Crown
Category	
Item	Encroachments
View of pipe penetrating waterside slope. 05/16/2012	
mkhashch_s_20130225_452.jpg	



Levee Mile Report Line	32
Start Levee Mile	3.95
End Levee Mile	3.95
Location	Crown
Category	
Item	Encroachments
View of siphon breaker valve on landside hinge. 05/16/2012	
mkhashch_s_20130225_453.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	33
Start Levee Mile	3.98
End Levee Mile	3.98
Location	Water Side
Category	
Item	Animal Control
11/03/2011 Burrow on waterside.	
mkhashch_s_20130225_474.jpg	



Levee Mile Report Line	35
Start Levee Mile	4.18
End Levee Mile	4.45
Location	Water Side
Category	
Item	Vegetation
11/03/2011 Waterside vegetation needs to be maintained on the top 20' of the waterside slope.	
mkhashch_s_20130225_475.jpg	



Levee Mile Report Line	39
Start Levee Mile	4.32
End Levee Mile	4.37
Location	Land Side
Category	
Item	Vegetation
Updated photo of encroachments on landside toe.	
mkhashch_s_20130225_459.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	41
Start Levee Mile	4.38
End Levee Mile	4.38
Location	Land Side
Category	
Item	Trim / Thin Trees
11/03/2011 Large stump on landside slope.	
mkhashch_s_20130225_458.jpg	



Levee Mile Report Line	44
Start Levee Mile	4.71
End Levee Mile	4.71
Location	Land Side
Category	
Item	Encroachments
04/28/2011 Stairs on landside slope for monitoring station.	
mkhashch_s_20130225_460.jpg	



Levee Mile Report Line	45
Start Levee Mile	4.71
End Levee Mile	4.71
Location	Water Side
Category	
Item	Encroachments
04/28/2011 Monitoring station.	
mkhashch_s_20130225_461.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.20	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	46
Start Levee Mile	4.81
End Levee Mile	4.87
Location	Land Side
Category	
Item	Vegetation
11/03/2011 Landside vegetation needs to be maintained for the full landside slope and 15' beyond the toe.	
mkhashch_s_20130225_477.jpg	



Levee Mile Report Line	47
Start Levee Mile	4.92
End Levee Mile	5.01
Location	Water Side
Category	
Item	Vegetation
11/03/2011 Waterside vegetation has been sprayed, but needs to be removed so the top 20' of the slope is visible.	
mkhashch_s_20130225_478.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River				0.69
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/09/2013 - 04/09/2013			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Ralph Timan RD2085			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.69	04/09/2013 04/09/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.04	0.64		Vegetation	WS	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.705400 ° -121.274337 °	37.713405 ° -121.269828 °	3 Y
DWR ID: DWR_RD2085_02_f_2012_3										
2	0.67	0.67		Encroachments	CR	M	EQ : Equipment Inspector Comments: Heavy equipment is being stored on the levee crown.	37.713820 ° -121.269685 °	37.713820 ° -121.269685 °	1 Y
DWR ID: DWR_RD2085_02_s_2012_1										

*** Location**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.69	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	1
Start Levee Mile	0.04
End Levee Mile	0.64
Location	Water Side
Category	
Item	Vegetation

View of tall vegetation obstructing visibility of waterside slopes.

mkhashch_s_20130225_480.JPG



Levee Mile Report Line	2
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Crown
Category	
Item	Encroachments

View of farming equipment being stored on the levee crown at the end of the spur levee.

mkhashch_s_20130410_717.JPG



*** Location**

LS : Land Side
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CR : Crown

**** Rating**

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N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Reclamation District No. 2085 Kasson

Waterway			Bank	Unit Miles
Unit No. 03 San Joaquin River				0.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/09/2013 - 04/09/2013			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Ralph Timan RD2085			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	04/09/2013 04/09/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.02	0.29		Vegetation	WS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.680705 ° -121.264343 °	37.683862 ° -121.262021 °	1 Y
DWR ID: DWR_RD2085_03_s_ 2012_1										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	04/09/2013 04/09/2013	Maksim Khashchuk

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	0.29
Location	Water Side
Category	
Item	Vegetation

View of vegetation on waterside slope.

mkhashch_s_20130410_720.JPG



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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